ECS Configuration Change Request

1. Originator Cherrry Kenney	2. Log Date: 11/19/02	3. CCR #: 02-1021	4. Rev:	5. Tel: 301-883-4177	6. Rm #: 3402D	7. Dept. DEV/CO

8. CCR Title: Patch_6A.07_DSS.01A

9. Originator Signature/Date C. Kenney /s/ 11/19/02	10. Class II	11. Type: CCR	12. Need Date: 18Nov02

13. Office Manager Signature/Date G. Smith /s/ 11/19/02	14. Category of Change: Initial ECS Baseline Doc.	15. Priority: (If "Emergency" fill in Block 27). Emergency

16. Documentation/Drawings Impacted (Review and submit checklist):	17. Schedule Impact:	18. CI(s) Affected:SDSRV, STMGT & DDIST

19. Release Affected by this Change: 6A	20. Date due to Customer: 18Nov02	21. Estimated Cost: None - Under 100K

22. Source Reference: ☒ **NCR (attach)** ☐ **Action Item** ☐ **Tech Ref.** ☐ **GSFC** ☐ **Other:**
See Attachment

23. Problem: (use additional Sheets if necessary)
See Attachment

24. Proposed Solution: (use additional sheets if necessary)
Deliver Patch_6A.07_DSS.01A to all DAACs.

25. Alternate Solution: (use additional sheets if necessary)
Leave problems unresolved until next DSS scheduled delivery.

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
6A.07 will not have the DSS fix for NCRs listed on page 2.

27. Justification for Emergency (If Block 15 is "Emergency"):
Delays in testing or possible delays in 6A.07 operational testing

28. Site(s) Affected: ☐ EDF ☒ PVC ☒ VATC ☒ EDC ☒ GSFC ☒ LaRC ☒ NSIDC ☐ SMC ☐ AK ☐ JPL
☐ EOC ☐ IDG Test Cell ☐ Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date): M. Armstrong /s/ 11/19/02	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS

33. M&O CCB Chair (Sign/Date): D. Stepp /s/ 11/19/02	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS

34. ECS CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

ADDITIONAL SHEET

CCR #:   **Rev:**   **Originator:** Cherry Kenney

Telephone: 301-883-4177   **Office:** 3204D

Title of Change: Patch_6A.07_DSS.01A

Actions

ClearCase Group(CSG):

Please make on SOL8 tar file with the following packages:
.EcDsDdDdistGUI.pkg
.EcDsDdDISTSRVR.pkg
.EcDsSdMOC.pkg (EDC Only)
.EcDsSdOPSWS.pkg
.EcDsSdSDSRV.pkg
.EcDsStMediaIngest.pkg (EDC Only)
.EcDsStGUI.pkg
.EcDsStRequestManager.pkg

Please make on IRIX65 tar file with the following packages:

.EcDsSCLI.pkg
.EcDsStArchive.pkg
.EcDsStDatabase.pkg
.EcDsStIngestFtp.pkg
.EcDsStPullMonitor.pkg

This will deliver the following NEW NCRs (not previouly delivered in a TE or Patch):

EDC NCRs

ECSed35239 FtpPull requests in MSS db are recorded as 0 gr
ECSed32984 Order stays in Pending state if all granules are restricte
ECSed34257 Package #1:Landsat 7 IGS metadata ingest accepts SCENE_CCA val
ECSed34052   Changes to MOC script due to Firewall install at
ECSed35141 DDISTfilenaminginconsistent with othe
ECSed34681 Distribution Server not receiving new requests
ECSed20518 Preprocessing should use retries for all SDSRV calls.
ECSed35008 SDSRV accepts acquire request with granule not in database
ECSed35327 L7 scene quality values of-1 not populating db correctly

GSFC NCRs

ECSed34996 -ScienceDataServer is running out of memory once or
ECSed35116 SDSRVR coring frequently
ECSed23097   Erroneous values in column NrGranFiles of Short Descri

EDF NCRs

ECSed35300 SDSRV Browse functionality broken

ECSed32822 Not able to delete Algorithm Package from SDSRV
ECSed35262 Ms table/attribute cache initialization failure
ECSed27409 EDG shows 'No Granules Found' when SDSRV cannot access its db
ECSed26728 SDSRV should use less "new EcLgErrorMsg()" to avoid heap contention
ECSed28568 V0GW: no error returned to EDG if at least one but not all grans deleted
ECSed35097 StReqMgr leaks 4 bytes per request

PVC NCRs

ECSed34889 Combine procedures used to complete a request
ECSed35946 Need to not overwrite the SLCsocks5.conf and clientproxy.conf files.
ECSed33665 SDSRV GUI mouse cursor stuck in watch mode

Also the following NCRs from Previously delivered TEs:

NCRs from TE_6A.06_SDSRV.07 (deliverd on 11/7/02)
ECSed34598 Granule size is not set for Landsat scenes
ECSed35330 L7IGS polling Ingest is automatically deleting duplicate data
ECSed35128 Floating Scene order fails
ECSed35808 PDPS is failing to generate Pdr for the AST_09T,AST_05

NCRs from TE_6A.06_STMGT.06 (delivered on 10/31/02)
ECSed35501 Client hung on ArDelete in STMGT
ECSed35528 CMCopyInto requests sometimes hang
ECSed35599 ArRetrieveFile can hang if waking up server is slow
ECSed35695 :FTP directories not there

NCRs from TE_6A.06_STMGT.07A (delivered only to GSFC on 11/8/02)
ECSed35051 StRequestManager cored in OPS
ECSed35443 Ddist blocked by Archive Table Cleanup Proc

ECSed34512   Need Support on FtpPullMonitor Configuration/Statistics

NCRs from TE_6A.06_STMGT.08 (delivered only to EDC on 11/12/02)
ECSed34765 StagingDisk server cored
ECSed34447 It is possible to get a 0 length file in RO Cache
ECSed34917 FtpServer on n0drg01 cored during test
ECSed34767 Browse removed from AMASS archive without explanation
ECSed35554 Remove D3 Ingest from OPS Install
ECSed35712 Analyse all fdopens and ensure closure on failure

DAAC Install Instructions

PREINSTALLATION

1. cp *sun5.8* <staging_area>/SOL8

2. cp *irix65* <staging_area>/IRIX65

3 Untar the files using the *Setup.ksh files.

4. cd <staging_area>/IRIX65/CUSTOM/dbms/

5. chmod -R 775 *

6. KIll all DSS servers on all hosts and the STMGT GUI.

7. On all STMGT hosts (xxacgnn, xxdrgnn, xxwkgnn, xxicgnn)
   a. cd /usr/ecs/<MODE>/CUSTOM/cfg
   b. cp SLCsocks5.conf /usr/ecs/<MODE>/CUSTOM/data/DSS

8. On the host where the INGEST GUI is installed (xxacsnn)

   a. cd /usr/ecs/<MODE>/CUSTOM/cfg
   b. cp SLCsocks5.conf /usr/ecs/<MODE>/CUSTOM/data/DSS
   c. cd /usr/ecs/<MODE>/CUSTOM/utilities
   d. edit the EcInEnvKsh and change the following lines:

      export CLIENTPROXY_CONF=${ECS_HOME}/${MODE}/CUSTOM/cfg/clientproxy.conf to
      export CLIENTPROXY_CONF=${ECS_HOME}/${MODE}/CUSTOM/data/INS/clientproxy.conf

      export SOCKS5_CONFIG_FILE=${ECS_HOME}/${MODE}/CUSTOM/cfg/SLCsocks5.conf to
      export SOCKS5_CONFIG_FILE=${ECS_HOME}/${MODE}/CUSTOM/data/DSS/SLCsocks5.conf

   e. edit the EcInEnvPerl file and change the following lines:

      $ENV{CLIENTPROXY_CONF} ="$ENV{ECS_HOME}/$ENV{MODE}/CUSTOM/cfg/clientproxy.conf"; to
      $ENV{CLIENTPROXY_CONF} ="$ENV{ECS_HOME}/$ENV{MODE}/CUSTOM/data/INS/clientproxy.conf";

      $ENV{SOCKS5_CONFIG_FILE} ="$ENV{ECS_HOME}/$ENV{MODE}/CUSTOM/cfg/SLCsocks5.conf"; to
      $ENV{SOCKS5_CONFIG_FILE} ="$ENV{ECS_HOME}/$ENV{MODE}/CUSTOM/data/DSS/SLCsocks5.conf";

9. On the hosts where Ingest Polling is installed (xxacgnn and xxicgnn)

   a. cd /usr/ecs/<MODE>/CUSTOM/cfg
   b. cp clientproxy.conf /usr/ecs/<MODE>/CUSTOM/data/INS/clientproxy.conf
   c. edit the EcInEnvKsh and change the following lines:

      export CLIENTPROXY_CONF=${ECS_HOME}/${MODE}/CUSTOM/cfg/clientproxy.conf to
      export CLIENTPROXY_CONF=${ECS_HOME}/${MODE}/CUSTOM/data/INS/clientproxy.conf

      export SOCKS5_CONFIG_FILE=${ECS_HOME}/${MODE}/CUSTOM/cfg/SLCsocks5.conf to
      export SOCKS5_CONFIG_FILE=${ECS_HOME}/${MODE}/CUSTOM/data/DSS/SLCsocks5.conf

   d. edit the EcInEnvPerl file and change the following lines:

      $ENV{CLIENTPROXY_CONF} ="$ENV{ECS_HOME}/$ENV{MODE}/CUSTOM/cfg/clientproxy.conf"; to
      $ENV{CLIENTPROXY_CONF} ="$ENV{ECS_HOME}/$ENV{MODE}/CUSTOM/data/INS/clientproxy.conf";

      $ENV{SOCKS5_CONFIG_FILE} ="$ENV{ECS_HOME}/$ENV{MODE}/CUSTOM/cfg/SLCsocks5.conf"; to
      $ENV{SOCKS5_CONFIG_FILE} ="$ENV{ECS_HOME}/$ENV{MODE}/CUSTOM/data/DSS/SLCsocks5.conf";

INSTALLATION:

Bring up E.A.S.I on the xxdisnn host and install all of the packages listed above

NOTE: The D3 Server installation is no longer included in the .EcDsStMediaIngest.pkg.

CONFIGURATION:

1. Exit out of the E.A.S.I and bring up the EcsAssist Subsystem Manager on xxdisnn.

2. Using EcsAssist Subsystem Manager install the /usr/ecs/<MODE>/CUSTOM/.installed/DSS/stmgt/.rgypatch.
This will add two new parameters to all the EcDsStCacheManagers and the EcDsStPullMonitorServer.
These new parameters are:

TransferRetentionDays -- The default value is set to 3 (days). This value is not used at this time.
CompletionStatusRelevant - The default value is set to false. This value is required as this time.
   (This has to be set to the default in case a user uses compression when he pulls files.)

3. Bring up the STMGT GUI

4. Click on the Storage Config tab

5. Click CACHE MANAGER to display a list of Cache Managers

6. From the list of Cache Managers listed click on EcDsStCacheManagerServerPULL and then click on Modify Server button.

7. In the window for FTP Notification File insert the name of the directory and file of the log where FTP writes.

IMPORTANT NOTE: THIS USED TO BE ONLY A DIRECTORY NAME. NOW IT IS BOTH THE DIRECTORY NAME AND FILENAME.

Recommended value until WU FTP COTS is delivered: add FtpPullNotify.dat filename to the current directory
After WU FTP is installed at the DAAC the value should be: /var/log/xferlog.

IMPORTANT NOTE: MAKE SURE WHICH EVER VALUE IS CONFIGURED, THAT THIS IS A VALID DIRECTORY NAME, the FILENAME DOES NOT HAVE TO BE VALID.

8. Set the value of the FTP Notification Freq (Sec). This is the number of seconds between times the EcDsStPullMonitorServer will read the log set in step 7. After WU FTP is installed, the recommended value is 1800 (every 30 minutes). Before WU FTP is installed the recommended value does not really matter as all that will happen is the directory will be checked and no information will be in the log.

After WU FTP it installed, when the Pull Monitors finds a filename in xferlog and that file is in the Pull Area the Pull Monitor will mark that file available for deletion. The file will be deleted at the current expiration time or 8 hours from when the file is listed in the log, whichever comes first.

There are no configuration changes for DDIST or SDSRV.

DATABASE PATCHES

1. Logon to the host where the STMGT DB package is installed (xxacgnn)

2. Bring up EcsAssist Subsystem Manager and patch the Database to Patch 6330
Four Patches will be executed. They are:

Patch 6311-- Combine complete request procedures

Patch 6313 Add DPL user EcDlActionDriver

Patch 6317 Fix client hung on ArDelete and data lost in pull area

Patch 6320 -Add a new stored procedure DsStCMCleanupOrSleep to control when and how often the cleanup thread runs for the Pull

There are no database patches for DDIST or SDSRV.

POST INSTALLATION

1. While logged in as the userid that runs servers at your site (cmshared or allmode), copy the DLLs to the DSS library directory:
  cp /usr/ecs/<MODE>/CUSTOM/lib/ESS/libDsESDT*.so ../DSS

2. Bring up all the DSS servers and the STMGT GUI if desired.

3. Do the following steps on every host where the EcDsStCacheManager is installed (Optional)

    a. Bring up EcsAssist Subsystem Manager
    b. Run the Mkcfg for EcDsStCacheManager
    c. On e0acg11 also run the Mkcfg for EcDsStPullMonitorsServer
    d. Exit out of EcsAssist Subsytem Manager
    e. cd /usr/ecs/<MODE>/CUSTOM/cfg
    f. Copy the EcDsSt*.CFG files to EcDsSt*.CFG.rgy files